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1 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Full text available: pdf(5.49 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

2 A Survey of Techniques for Synchronization and Recovery in Decentralized Computer Systems

Walter H. Kohler

June 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 2

Full text available: pdf(3.33 MB) Additional Information: full citation, references, citings, index terms

3 Distributed data base management: Some thoughts and analyses

C. Mohan

January 1980 **Proceedings of the ACM 1980 annual conference**

Full text available: pdf(1.14 MB) Additional Information: full citation, abstract, references, citings, index terms

The new decade will witness the widespread usage of distributed processing systems. Distributed data base management will turn out to be one of the important applications of this relatively new technology. This paper initially presents a brief outline of the nature of research that has been performed so far in this area. Next, it discusses some of the important issues (like integrity and security constraints, deadlocks, concurrency control, etc.) and analyses some proposed mechanisms. Perfo ...

4 Encapsulation constructs in systems programming languages

W. F. Appelbe, A. P. Ravn

April 1984 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 6 Issue 2

Full text available: pdf(1.62 MB) Additional Information: full citation, references, index terms, review

5 Data flow, abstraction levels and specifications for communications switching systems
K. S. Shankar, C. S. Chandersekaran
October 1976 **Proceedings of the 2nd international conference on Software engineering**

Full text available: pdf(643.61 KB) Additional Information: full citation, abstract, references, citings, index terms

The purpose of this effort was the specification and design of a family of Communications Switching Systems, such that each design and implementation of the specification leads to a family member. Each set of design and implementation decisions chosen would lead to some appropriate desired member of the family. Basically, our methodology consists of the following six steps, System Modelling, Data Flow Modelling, Features Selection, Modules Selection, Hierarchicalization, and Abstract Machin ...

Keywords: Abstract machines, Communications switching systems, Hierarchical design, Information hiding modules, Operating systems, Software design methodology

6 Technical reports
SIGACT News Staff
January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Full text available: pdf(5.28 MB) Additional Information: full citation

7 Design issues in distributed multidatabase systems
Glenn R. Thompson, Yuri J. Breitbart
October 1986 **Proceedings of the 1986 workshop on Applied computing**

Full text available: pdf(653.64 KB) Additional Information: full citation, abstract, references, index terms

Many reports have been published on the design strategies employed in the development of multidatabase systems. This paper examines some of these strategies and compares the design of the ADDS system to other efforts in the development of multidatabase systems. There are a number of interesting issues that arise when considering the design of a distributed multidatabase system. These include: (1) the levels of update control for the supported physical databases, (2) the cooperation of the g ...

8 Data integrity: Web application security assessment by fault injection and behavior monitoring
Yao-Wen Huang, Shih-Kun Huang, Tsung-Po Lin, Chung-Hung Tsai
May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available: pdf(4.53 MB) Additional Information: full citation, abstract, references, citings, index terms

As a large and complex application platform, the World Wide Web is capable of delivering a broad range of sophisticated applications. However, many Web applications go through rapid development phases with extremely short turnaround time, making it difficult to eliminate vulnerabilities. Here we analyze the design of Web application security assessment mechanisms in order to identify poor coding practices that render Web applications vulnerable to attacks such as SQL injection and cross-site scr ...

Keywords: black-box testing, complete crawling, fault injection, security assessment, web application testing

9 Read-only transactions in a distributed database
Hector Garcia-Molina, Gio Wiederhold
June 1982 **ACM Transactions on Database Systems (TODS)**, Volume 7 Issue 2

Full text available: pdf(2.16 MB) Additional Information: full citation, abstract, references, citings, index terms

A read-only transaction or query is a transaction which does not modify any data. Read-only transactions could be processed with general transaction processing algorithms, but in many cases it is more efficient to process read-only transactions with special algorithms which take advantage of the knowledge that the transaction only reads. This paper defines the various consistency and currency requirements that read-only transactions may have. The processing of the different classes of read- ...

Keywords: R insularity, concurrency control, consistency, currency, query, read-only transaction, schedule, serializability, transaction, transaction processing algorithm

10 Techniques for reducing consistency-related communication in distributed shared-memory systems

John B. Carter, John K. Bennett, Willy Zwaenepoel

August 1995 **ACM Transactions on Computer Systems (TOCS)**, Volume 13 Issue 3

Full text available: pdf(2.86 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Distributed shared memory (DSM) is an abstraction of shared memory on a distributed-memory machine. Hardware DSM systems support this abstraction at the architecture level; software DSM systems support the abstraction within the runtime system. One of the key problems in building an efficient software DSM system is to reduce the amount of communication needed to keep the distributed memories consistent. In this article we present four techniques for doing so: software release consistency; m ...

Keywords: cache consistency protocols, distributed shared memory, memory models, release consistency, virtual shared memory

11 Introduction to a system for distributed databases (SDD-1)

J. B. Rothnie, P. A. Bernstein, S. Fox, N. Goodman, M. Hammer, T. A. Landers, C. Reeve, D. W. Shipman, E. Wong

March 1980 **ACM Transactions on Database Systems (TODS)**, Volume 5 Issue 1

Full text available: pdf(1.23 MB) Additional Information: full citation, abstract, references, citings, index terms

The declining cost of computer hardware and the increasing data processing needs of geographically dispersed organizations have led to substantial interest in distributed data management. SDD-1 is a distributed database management system currently being developed by Computer Corporation of America. Users interact with SDD-1 precisely as if it were a nondistributed database system because SDD-1 handles all issues arising from the distribution of data. These issues include distributed concurr ...

Keywords: concurrency control, database reliability, distributed database system, query processing, relational data model

12 A distributed shared memory multiprocessor ASURA: memory and cache architecture

S. Mori, H. Saito, M. Goshima, S. Tomita, M. Yanagihara, T. Tanaka, D. Fraser, K. Joe, H. Nitta

December 1993 **Proceedings of the 1993 ACM/IEEE conference on Supercomputing**

Full text available: pdf(1.17 MB) Additional Information: full citation, references, citings, index terms

13 Andrew: a distributed personal computing environment

James H. Morris, Mahadev Satyanarayanan, Michael H. Conner, John H. Howard, David S. Rosenthal, F. Donelson Smith

March 1986 **Communications of the ACM**, Volume 29 Issue 3

Full text available: pdf(2.16 MB) Additional Information: full citation, abstract, references, citings, index

terms, review

The Information Technology Center (ITC), a collaborative effort between IBM and Carnegie-Mellon University, is in the process of creating Andrew, a prototype computing and communication system for universities. This article traces the origins of Andrew, discusses its goals and strategies, and gives an overview of the current status of its implementation and usage.

14 DGDBM: programming support for distributed transactions over replicated files

Maria Consuelo Franky
July 1995 **ACM SIGOPS Operating Systems Review**, Volume 29 Issue 3

Full text available: pdf(852.14 KB) Additional Information: full citation, abstract, index terms

This paper describes a set of facilities for programming distributed transactions over replicated files which are accessed by primary key. The files are located on several computers communicated by a network. Each site has the set of GNU dbm (Gdbm) routines for local file management [15]. Above this platform we have built an interface and a set of services for distributed transaction programming. The resulting programming environment,"DGDBM", offers transparency in relation to data distribution ...

Keywords: distributed data bases, distributed file systems, distributed systems, distributed transaction systems, replicated data management, tools for the C programming of distributed transactions

15 Dynamic file migration in distributed computer systems

Bezalel Gavish, Olivia R. Liu Sheng
February 1990 **Communications of the ACM**, Volume 33 Issue 2

Full text available: pdf(1.53 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The importance of file migration is increasing because of its potential to improve the performance of distributed office, manufacturing and hospital information systems. To encourage research in the file migration problem, the authors summarize accomplishments of researchers of the problem, provide a detailed comparison of file migration and dynamic file allocation problems, and identify important areas of research to support the development of effective file migration policies.

16 Genesis: a distributed database operating system

Thomas W. Page, Matthew J. Weinstein, Gerald J. Popek
May 1985 **ACM SIGMOD Record , Proceedings of the 1985 ACM SIGMOD international conference on Management of data**, Volume 14 Issue 4

Full text available: pdf(1.48 MB) Additional Information: full citation, references, citings, index terms

17 Using meta-level compilation to check FLASH protocol code

Andy Chou, Benjamin Chelf, Dawson Engler, Mark Heinrich
November 2000 **Proceedings of the ninth international conference on Architectural support for programming languages and operating systems**, Volume 34 , 28 Issue 5 , 5

Full text available: pdf(297.02 KB) Additional Information: full citation, abstract, references, citings, index terms

Building systems such as OS kernels and embedded software is difficult. An important source of this difficulty is the numerous rules they must obey: interrupts cannot be disabled for ~too long," global variables must be protected by locks, user pointers passed to OS code must be checked for safety before use, etc. A single violation can crash the system, yet typically these invariants are unchecked, existing only on paper or in the implementor's mind.This paper is a case study in how system impl ...

18 Using meta-level compilation to check FLASH protocol code

Andy Chou, Benjamin Chelf, Dawson Engler, Mark Heinrich

November 2000 **ACM SIGPLAN Notices**, Volume 35 Issue 11

Full text available: pdf(1.39 MB) Additional Information: full citation, abstract, references, index terms

Building systems such as OS kernels and embedded software is difficult. An important source of this difficulty is the numerous rules they must obey: interrupts cannot be disabled for "too long," global variables must be protected by locks, user pointers passed to OS code must be checked for safety before use, etc. A single violation can crash the system, yet typically these invariants are unchecked, existing only on paper or in the implementor's mind.This paper is a case study in how system impl ...

19 In support of domain structure for operating systems

Douglas Cook

December 1979 **Proceedings of the seventh ACM symposium on Operating systems principles**

Full text available: pdf(258.81 KB) Additional Information: full citation, abstract, references, citings, index terms

One approach advocated in the search for better designed and more reliable operating systems is to base the design on the use of small protection domains. This paper presents empirical evidence to show that, with a suitable architecture, the overheads associated with using small protection domains do not make this an impractical approach.

20 A distributed hypercube file system

R. J. Flynn, H. Hadimioglu

January 1989 **Proceedings of the third conference on Hypercube concurrent computers and applications - Volume 2**

Full text available: pdf(651.48 KB) Additional Information: full citation, abstract, references, citings, index terms

For the hypercube, an autonomous physically interconnected file system is proposed. The resulting distributed file system consists of an I/O organization and a software interface. The system is loosely-coupled architecturally but from operating systems point of view a tightly-coupled system is formed in which interprocessor messages are handled differently from file accesses. A matrix multiplication algorithm is given to show how the distributed file system is utilized.

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M2. Jan 14, 2004. p. 1
Full text Abstract

2. **Sun Microsystems, ICSynergy and FatWire Team to 'Suit' The Men's Wearhouse**
PR Newswire. New York: Jan 13, 2004. p. 1
Full text Abstract

3. **Wowstores.com Affiliate Signings Reach 500**
PR Newswire. New York: Jul 1, 1999. p. 1
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4. **Oblix Announces Support for IBM's SecureWay Directory**
PR Newswire. New York: Jun 23, 1999. p. 1
Full text Abstract

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1 Distributed databases: Cost evaluation of directory management schemes for distributed database systems
Yutaka Matsushita, Haruaki Yamazaki, Sadayuki Hikita, Isamu Yoshida
May 1980 **Proceedings of the 1980 ACM SIGMOD international conference on Management of data**
Full text available: pdf(729.24 KB) Additional Information: full citation, references

2 Efficient strategies for software-only protocols in shared-memory multiprocessors
Håkan Grahn, Per Stenström
May 1995 **ACM SIGARCH Computer Architecture News , Proceedings of the 22nd annual international symposium on Computer architecture**, Volume 23 Issue 2
Full text available: pdf(1.31 MB) Additional Information: full citation, abstract, references, citings, index terms

The cost, complexity, and inflexibility of hardware-based directory protocols motivate us to study the performance implications of protocols that emulate directory management using software handlers executed on the compute processors. An important performance limitation of such software-only protocols is that software latency associated with directory management ends up on the critical memory access path for read miss transactions. We propose five strategies that support efficient data transfers ...

3 Performance measurement methodologies for database systems
Steven A. Demurjian, David K. Hsiao, Douglas S. Kerr, Robert C. Tekampe, Robert J. Watson
October 1985 **Proceedings of the 1985 ACM annual conference on The range of computing : mid-80's perspective: mid-80's perspective**
Full text available: pdf(1.34 MB) Additional Information: full citation, references, index terms

4 The architectural requirement and integration analyses of a database server for office automation
Steven A. Demurjian, David K. Hsiao, Roger G. Marshall
October 1985 **Proceedings of the 1985 ACM annual conference on The range of computing : mid-80's perspective: mid-80's perspective**
Full text available: pdf(1.12 MB) Additional Information: full citation, references, index terms

5 Introduction to a system for distributed databases (SDD-1)
J. B. Rothnie, P. A. Bernstein, S. Fox, N. Goodman, M. Hammer, T. A. Landers, C. Reeve, D.

W. Shipman, E. Wong
March 1980 **ACM Transactions on Database Systems (TODS)**, Volume 5 Issue 1

Full text available: pdf(1.23 MB) Additional Information: full citation, abstract, references, citings, index terms

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Keywords: concurrency control, database reliability, distributed database system, query processing, relational data model

6 Distributed operating systems
Andrew S. Tanenbaum, Robbert Van Renesse
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Full text available: pdf(5.49 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

7 MAP application layer interface and application layer management structure: part I: management structure
Kester L. Fong, Patricia A. Amaranth
April 1985 **ACM SIGCOMM Computer Communication Review**, Volume 15 Issue 2

Full text available: pdf(1.31 MB) Additional Information: full citation, references

8 The ethnographically informed participatory design of a PD application to support communication
Rhian Davies, Skip Marcella, Joanna McGrenere, Barbara Purves
September 2003 **ACM SIGACCESS Accessibility and Computing , Proceedings of the ACM SIGACCESS conference on Computers and accessibility**, Issue 77-78

Full text available: pdf(366.77 KB) Additional Information: full citation, abstract, references, index terms

Aphasia is an acquired communication deficit that impacts the different language modalities. PDAs have a form factor and feature set that suggest they could be effective communication tools for people with aphasia. An ethnographic study was conducted with one participant both to learn about communication strategies used by people with aphasia, and to observe how a PDA is incorporated into those strategies. The most significant usability issues found were file access and organization. A partic ...

Keywords: aphasia, assistive technology, augmentative alternative communication, cognitive disabilities, ethnography, handheld devices, participatory design, universal usability

9 Data flow, abstraction levels and specifications for communications switching systems
K. S. Shankar, C. S. Chandersekaran
October 1976 **Proceedings of the 2nd international conference on Software engineering**

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Full text available: pdf(643.61 KB) full citation, abstract, references, citings, index terms

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Keywords: Abstract machines, Communications switching systems, Hierarchical design, Information hiding modules, Operating systems, Software design methodology

10 Improved interpretation of UNIX-like file names embedded in data
Douglas W. Jones
August 1984 **Communications of the ACM**, Volume 27 Issue 8

Full text available: pdf(427.31 KB) Additional Information: full citation, abstract, references, index terms

When the data processed by a program span several files, the common practice of including file names as data in some of the files leads to difficulties in moving or sharing that data. In systems using tree structured directories, this problem can be solved by making a syntactic distinction between absolute and relative file names.

Keywords: UNIX, directory management, file name interpretation, file systems, macro parameters, programming environments, scope rules, text insertion

11 Nomenclator descriptive query optimization for large X.500 environments
Joann J. Ordille, Barton P. Miller
August 1991 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architecture & protocols**, Volume 21 Issue 4

Full text available: pdf(1.26 MB) Additional Information: full citation, references, citings, index terms

12 Technical reports
SIGACT News Staff
January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Full text available: pdf(5.28 MB) Additional Information: full citation

13 Concurrent operations on extendible hashing and its performance
Vijay Kumar
June 1990 **Communications of the ACM**, Volume 33 Issue 6

Full text available: pdf(1.35 MB) Additional Information: full citation, abstract, references, index terms, review

Extendible hashing is a dynamic data structure which accommodates expansion and contraction of any stored data efficiently. In this article, an algorithm has been developed for managing concurrent operations on extendible hashing by achieving optimal memory utilization by supporting directly expansion and contraction, page split, and merge. The results of this study have been encouraging in the sense that it seems to provide a higher degree of concurrency compared to other algorithms on an ...

Keywords: atomic, blocking, global depth, local depth, pseudo key, roll back, verification process

14

Dynamic file migration in distributed computer systems
Bezalel Gavish, Olivia R. Liu Sheng
February 1990 **Communications of the ACM**, Volume 33 Issue 2

Full text available: pdf(1.53 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The importance of file migration is increasing because of its potential to improve the performance of distributed office, manufacturing and hospital information systems. To encourage research in the file migration problem, the authors summarize accomplishments of researchers of the problem, provide a detailed comparison of file migration and dynamic file allocation problems, and identify important areas of research to support the development of effective file migration policies.

15 Encapsulation constructs in systems programming languages
W. F. Appelbe, A. P. Ravn
April 1984 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 6 Issue 2

Full text available: pdf(1.62 MB) Additional Information: full citation, references, index terms, review

16 Andrew: a distributed personal computing environment
James H. Morris, Mahadev Satyanarayanan, Michael H. Conner, John H. Howard, David S. Rosenthal, F. Donelson Smith
March 1986 **Communications of the ACM**, Volume 29 Issue 3

Full text available: pdf(2.16 MB) Additional Information: full citation, abstract, references, citings, index terms, review

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17 EDIFACT for business computers: has it succeeded?
Airi Salminen
March 1995 **StandardView**, Volume 3 Issue 1

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18 Techniques for reducing consistency-related communication in distributed shared-memory systems
John B. Carter, John K. Bennett, Willy Zwaenepoel
August 1995 **ACM Transactions on Computer Systems (TOCS)**, Volume 13 Issue 3

Full text available: pdf(2.86 MB) Additional Information: full citation, abstract, references, citings, index terms, review

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Keywords: cache consistency protocols, distributed shared memory, memory models, release consistency, virtual shared memory

19 An overview of the Amoeba distributed operating system

Andrew S. Tanenbaum, Sape J. Mullender
July 1981 **ACM SIGOPS Operating Systems Review**, Volume 15 Issue 3

Full text available: pdf(822.33 KB) Additional Information: full citation, abstract, references

As hardware prices continue to drop rapidly, building large computer systems by interconnecting substantial numbers of microcomputers becomes increasingly attractive. Many techniques for interconnecting the hardware, such as Ethernet [Metcalfe and Boggs, 1976], ring nets [Farber and Larson, 1972], packet switching, and shared memory are well understood, but the corresponding software techniques are poorly understood. The design of general purpose distributed operating systems is one of the key r ...

20 Minicomputer timesharing performance and usability



Martin Minow
June 1978 **ACM SIGMINI Newsletter**, Volume 4 Issue 3

Full text available: pdf(770.72 KB) Additional Information: full citation, abstract

This article discusses usability, performance, and management of minicomputer timesharing systems. It attempts to define the factors that make operating-systems usable and suggests ways in improving the usability and performance of application programs. While some parts of the discussion are specific to Digital's RSTS/E operating system, much should prove applicable to other systems.This article is based on a talk given at the Fall 1977 DECUS Seminar which will be published in the DECUS proceedi ...

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